

What is claimed is:

1. A computer-implemented method of automatic carrier transfer, comprising using a computer to perform the steps of:

5 executing a data verification procedure after a
 first process operation of a plurality of
 wafers and obtaining a verification result;
 producing a carrier transfer sub-route of the
 wafers according to the verification result;
10 executing the carrier transfer sub-route of the
 wafers; and
 executing a second process operation for the
 wafers.

2. The computer-implemented method as claimed in claim 1, wherein the data verification procedure is executed according to a MES database.

3. The computer-implemented method as claimed in claim 1, wherein the data verification procedure verifies the data between the wafers and the MES database.

4. The computer-implemented method as claimed in claim 1, wherein executing the carrier transfer sub-route further comprises updating the MES database.

5. The computer-implemented method as claimed in claim 1, wherein the carrier transfer sub-route is enabled by transferring the wafers from a first carrier to a second carrier.

6. The computer-implemented method as claimed
in claim 1, wherein the carrier transfer sub-route is
enabled by splitting the wafers in the first carrier
and transferring the split lots to at least two
5 carriers.

7. The computer-implemented method as claimed
in claim 1, wherein the first process operation and
the second process operation are stored in a first
database.

8. The computer-implemented method as claimed
in claim 1, wherein the carrier transfer sub-route is
stored in a second database.

9. A storage medium for storing a computer
program providing a method of automatic carrier
transfer, comprising using a computer to perform the
steps of:

5 executing a data verification procedure after a
 first process operation of a plurality of
 wafers and obtaining a verification result;
 producing a carrier transfer sub-route according
 to the verification result;
10 executing the carrier transfer sub-route of the
 wafers; and
 executing a second process operation for the
 wafers.

10. The storage medium as claimed in claim 9, wherein the data verification procedure is executed according to a MES database.

11. The storage medium as claimed in claim 9, wherein the data verification procedure verifies the data between the wafers and the MES database.

12. The storage medium as claimed in claim 9, wherein the step of executing the carrier transfer sub-route further comprises updating the MES database.

13. The storage medium as claimed in claim 9, wherein the carrier transfer sub-route is enabled by transferring the wafers from a first carrier to a second carrier.

14. The storage medium as claimed in claim 9, wherein the carrier transfer sub-route is enabled by splitting the wafers in the first carrier and transferring the split lots to at least two carriers.

15. The storage medium as claimed in claim 9, wherein the first process operation and the second process operation are stored in a first database.

16. The storage medium as claimed in claim 9, wherein the carrier transfer sub-route is stored in a second database.

17. A system of automatic carrier transfer, comprising:

- 5 a first execution module, executing a data
 verification procedure after a first process
 operation of a plurality of wafers and
 obtaining a verification result;
- 10 a sub-route production module, coupled to the
 first execution module, producing a carrier
 transfer sub-route according to the
 verification result;
- a sub-route execution module, coupled to the sub-
 route production module, executing the
 carrier transfer sub-route of the wafers;
 and
- 15 a second execution module, coupled to the sub-
 route execution module, executing a second
 process operation for the wafers.

18. The system as claimed in claim 17, wherein the first execution module executes the verification procedure according to a MES database.

19. The system as claimed in claim 17, wherein the data verification procedure verifies the data between the wafers and the MES database.

20. The system as claimed in claim 17, wherein the sub-route execution module further updates the database of MES.

21. The system as claimed in claim 17, wherein the carrier transfer sub-route is enabled by transferring the wafers from a first carrier to a second carrier.

22. The system as claimed in claim 17, wherein the carrier transfer sub-route is enabled by splitting the wafers in the first carrier and transferring the split lots to at least two carriers.

23. The system as claimed in claim 17, wherein the first process operation and the second process operation are stored in a first database.

24. The system as claimed in claim 17, wherein the carrier transfer sub-route is stored in a second database.

25. An IC product produced by a method of automatic carrier transfer, the method comprising the steps of:

5 executing a data verification procedure after a
 first process operation for a plurality of
 wafers and obtaining a verification result;
 producing a carrier transfer sub-route according
 to the verification result;
 executing the carrier transfer sub-route of the
10 wafers; and
 executing a second process operation for the
 wafers.

26. The IC product as claimed in claim 25, wherein the verification procedure is executed according to a MES database.

27. The IC product as claimed in claim 25, wherein the data verification procedure verifies the data between the wafers and the MES database.

28. The IC product as claimed in claim 25, wherein the method further comprises updating the MES database.

29. The IC product as claimed in claim 25, wherein the carrier transfer sub-route is enabled by transferring the wafers from a first carrier to a second carrier.

30. The IC product as claimed in claim 25, wherein the carrier transfer sub-route is enabled by splitting the wafers in the first carrier and transferring the split lots to at least two carriers.

31. The IC product as claimed in claim 25, wherein the first process operation and the second process operation are stored in a first database.

32. The IC product as claimed in claim 25, wherein the carrier transfer sub-route is stored in a second database.